

# FE 112

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Diagram No. 77-3 & 78-2

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## DESCRIPTIVE REPORT (HYDROGRAPHIC)

Type of Survey .... Field Examination .....

Field No. ....

Office No..... FE-112 .....

### LOCALITY

State ..... Maryland .....

General Locality ... Chesapeake Bay .....

Locality ..... West Side Bloodsworth Island .....

1953

CHIEF OF PARTY

J.H. Brittain

### LIBRARY & ARCHIVES

DATE ..... July 17, 1953 .....

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as; FE No.2 1953



FENo. 2  
1953

FE-112

Diag. Cht. Nos. 77-3 & 78-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

**SPECIAL**

Field No. INVESTIGATION Office No. FE-2-1953

LOCALITY

State MARYLAND

General locality CHESAPEAKE BAY

Locality WEST SIDE BLOODSWORTH ISLAND

1953

CHIEF OF PARTY

J. H. BRITTAIN

LIBRARY & ARCHIVES

DATE July 17, 1953

B-1870-1 (1)

FENo. 2  
1953



DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER NO. FE-2-1953

Field No. \_\_\_\_\_

State Maryland

General locality Chesapeake Bay

Locality West of Bloodworth Island

Scale 1:30,000 Date of survey April 28, 1953

Instructions dated \_\_\_\_\_

Vessel COWIE

Chief of party J. H. Brittain

Surveyed by J. H. Brittain

Soundings taken by fathometer, graphic recorder, hand lead, wire \_\_\_\_\_

Fathograms scaled by C. W. King

Fathograms checked by R. E. Elkins

Protracted by J. H. Brittain

Verified and reviewed by - R. E. Elkins

~~Soundings provided by~~

Soundings in ~~fathoms~~ feet at MLW ~~MLW~~ and are true depths

REMARKS: \_\_\_\_\_

DESCRIPTIVE REPORT

TO ACCOMPANY

SPECIAL SURVEY

VICINITY OF BLOODSWORTH ISLAND, CHESAPEAKE BAY

An hydrographic investigation of charted soundings was undertaken in the vicinity of Latitude  $38^{\circ} 08.0'$ ; Longitude  $76^{\circ} 00.5'$  on the 28th of April 1953, upon verbal instructions from the Washington Office.

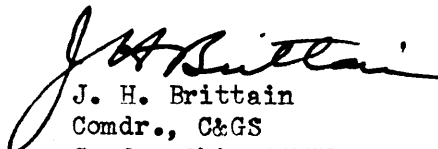
The work consisted of closely spaced sounding lines over an area of approximately 0.75 miles radius, centered on the aforementioned position. A copy of Chart 3330, upon which signals had been plotted, was used as a boat sheet.

The hydrography was done with the Ship COWIE, using the 808 type fathometer. Two bar checks were taken and the mean difference between true and fathometer depths were applied to the fathometer soundings.

Hourly heights from the Solomon Island standard gage were used for tide reduction. These hourly heights, corrected for time and range of tide, were furnished by the Washington Office.

Soundings obtained on this survey agree very well with those shown on Chart 3330. No dangers other than charted shoals were found in the area.

Respectfully submitted,

  
J. H. Brittain  
Comdr., C&GS  
Comdg. Ship COWIE



FATHOMETER CORRECTIONS

1.0 ft. to 22 ft.  
1.2 ft. to 25 ft.  
1.4 ft. to 28 ft.  
1.6 ft. to 31 ft.  
1.8 ft. to 33 ft.  
2.0 ft. to 37 ft.  
2.2 ft. to 40 ft.  
2.4 ft. to 43 ft.  
2.6 ft. to 47 ft.

SIGNALS

TRIANGULATION STATIONS:

△ Holland Island Bar Lighthouse, 1897      p 273

△ Brass 1948      p 533

~~TOPOGRAPHIC SIGNALS:~~

△ COW (U.S. Navy Observation Tower) 1950  
(Tower No.1, Chesapeake Bay, 1953) ← C.L. 486 (1953)  
(Okahamaken Point Light)

STATISTICS

A - day      -      179 positions      -      67.5 statute miles sounding lines.

AREA: 3.0 Sq. miles.



P4C

# TIDE NOTE FOR HYDROGRAPHIC SHEET

27 July 1953

~~Division of Coastal Surveys:~~

Division of Charts: R. H. Carstens

Plane of reference approved in  
1 volume of sounding records for

HYDROGRAPHIC SHEET F. E. No. 2 1953

Locality Chesapeake Bay, Maryland

Chief of Party: J. H. Brittain in 1953  
Plane of reference is Mean low water, reading  
3.0 ft. on tide staff at Solomons Island  
10.9 ft. below B. M. 4 (1937)

Height of mean high water above plane of reference is 1.2 feet.

Condition of records satisfactory except as noted below:

E. C. McKay  
Section of Tides

Chief, Division of Tides and Currents.



# Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. F.E. No. 2..(1953)

## Records accompanying survey:

Boat sheets ..1...; sounding vols. ....1; wire drag vols. ....;  
bomb vols. ....; graphic recorder rolls 1.Env.;  
special reports, etc. ..1.Descriptive Report:.....  
.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.....	179
Number of positions checked	.....	10
Number of positions revised	.....	—
Number of soundings revised (refers to depth only)	.....	10
Number of soundings erroneously spaced	.....	—
Number of signals erroneously plotted or transferred	.....	—
Topographic details	Time	.....
Junctions	Time	.....
Verification of soundings from graphic record and reduction of soundings	Time	..... 16
Verification by..... <i>R.E. Elkins</i>	Total time	..... 36 Date 12-2-53
Reviewed by..... <i>R.E. Elkins</i>	Time	..... 8 Date 12-3-53



## Review of Field Examination 2, 1953

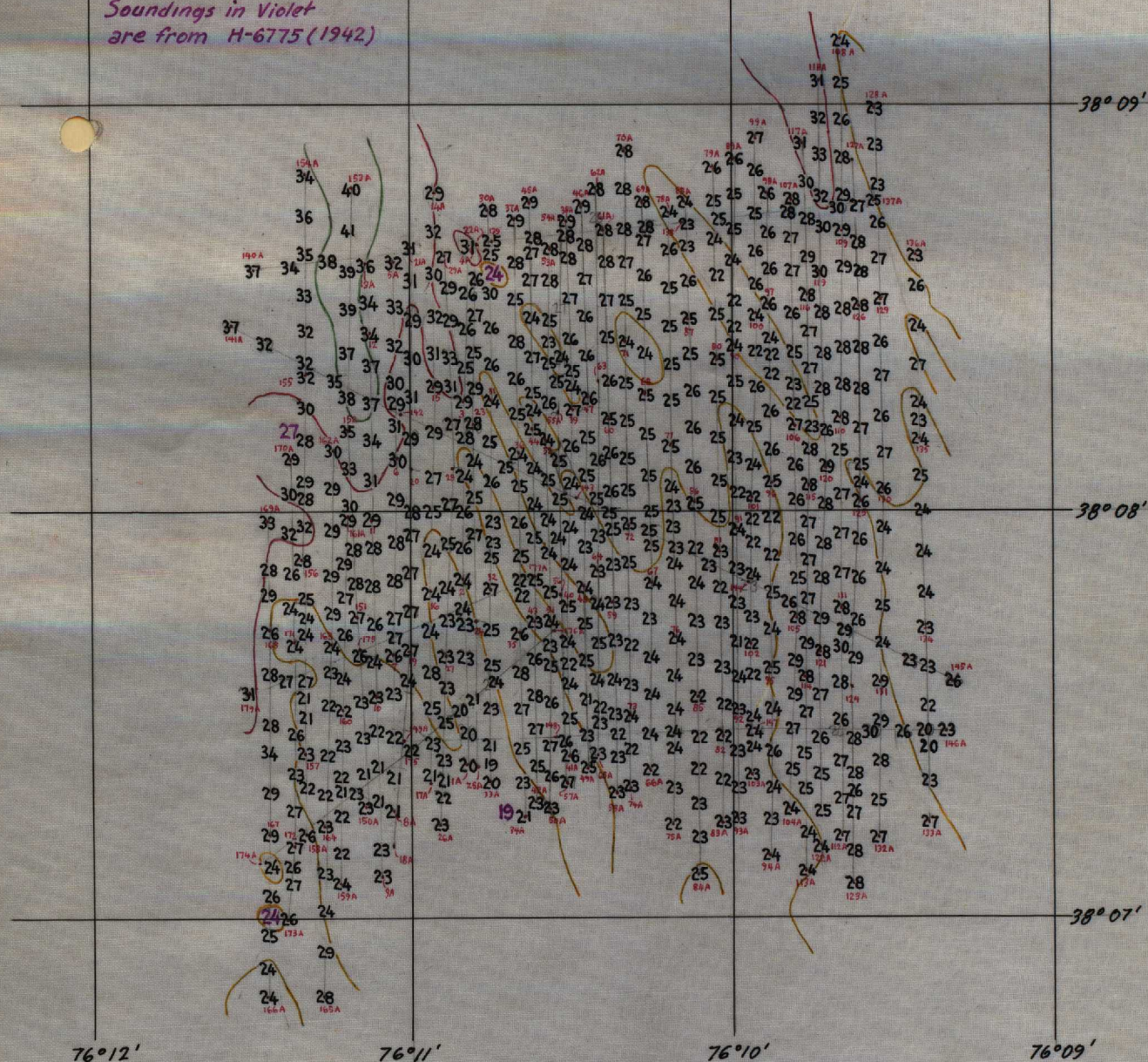
1. The authority for this survey and the origin of the signals is given in the Descriptive Report.
2. The hydrography <sup>plotted</sup> on a copy of Chart 3330 (print date 3-16-42) scale 1:30,000, used as a boat sheet, is not affected by the new position of signal "COW" as determined, later, by triangulation (Tower No. 1, 1953; Chart Letter 486-1953). Position fixes plotted on the boat sheet were traced on to a linen smooth sheet. The processing of the sounding records was completed during verification.
3. A comparison between the prior basic survey, H-6775 (1942) and the present field examination, reveals no changes in the bottom. Prior and present depths are in good agreement throughout.
4. The charted hydrography on Chart 3330 (print date 12-22-52) from the prior basic survey, H-6775 (1942), is in good agreement with present survey depths.

Reviewed by - R. E. Elkins  
12-3-53  
V.R.E.

Inspected by -  
R. H. Carstens



*Soundings in Violet  
are from H-6775 (1942)*



FE-2 - 1953

West of Bloodsworth Island  
Chesapeake Bay  
Maryland

Chief of Party - J.H. Brittain

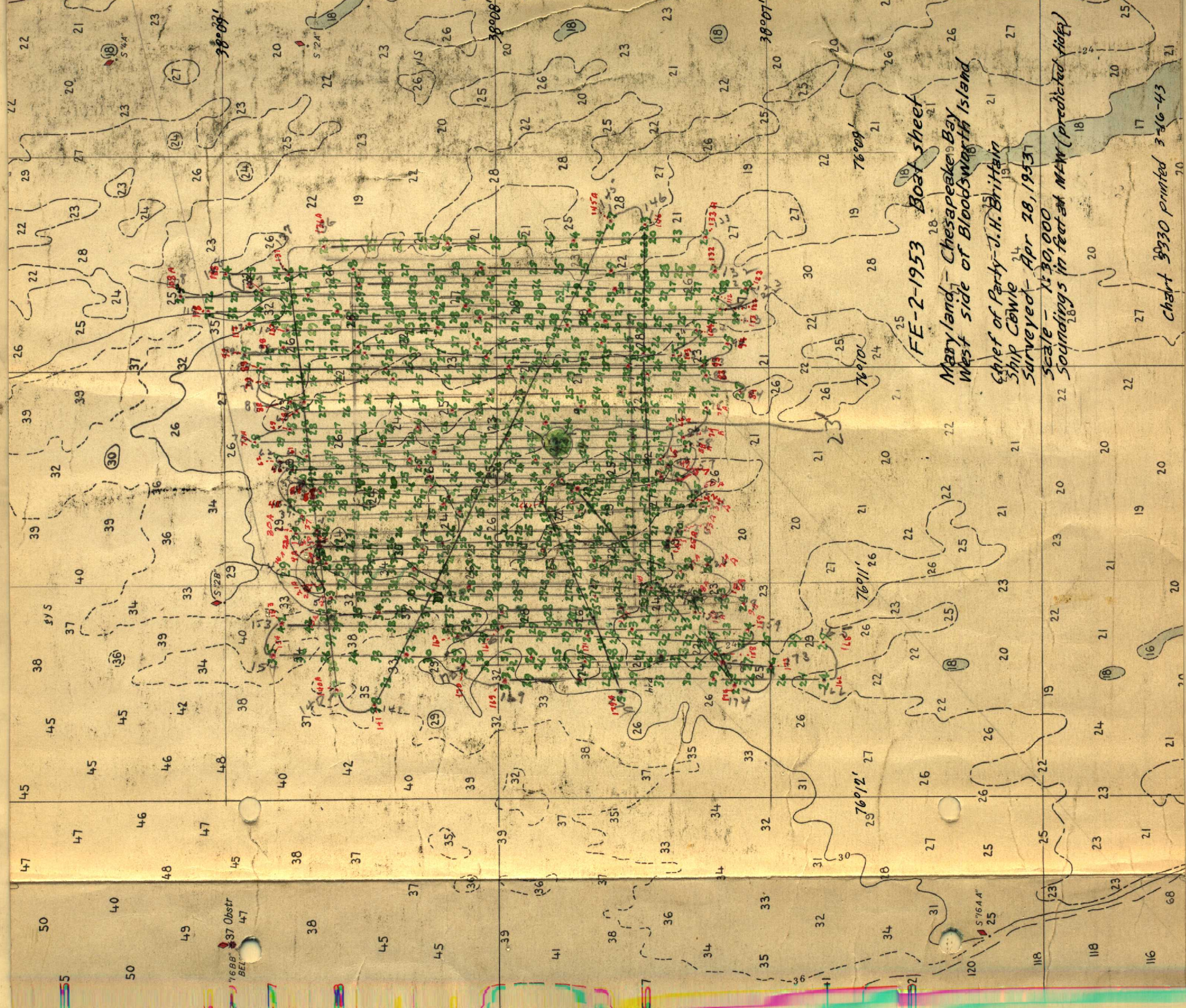
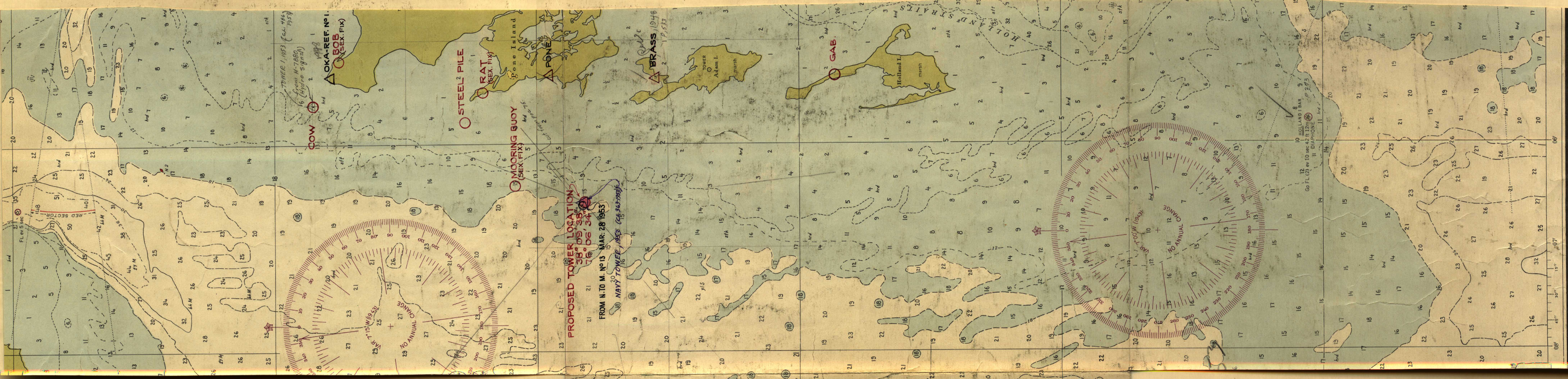
Ship - Cowie

Surveyed - Apr. 28, 1953

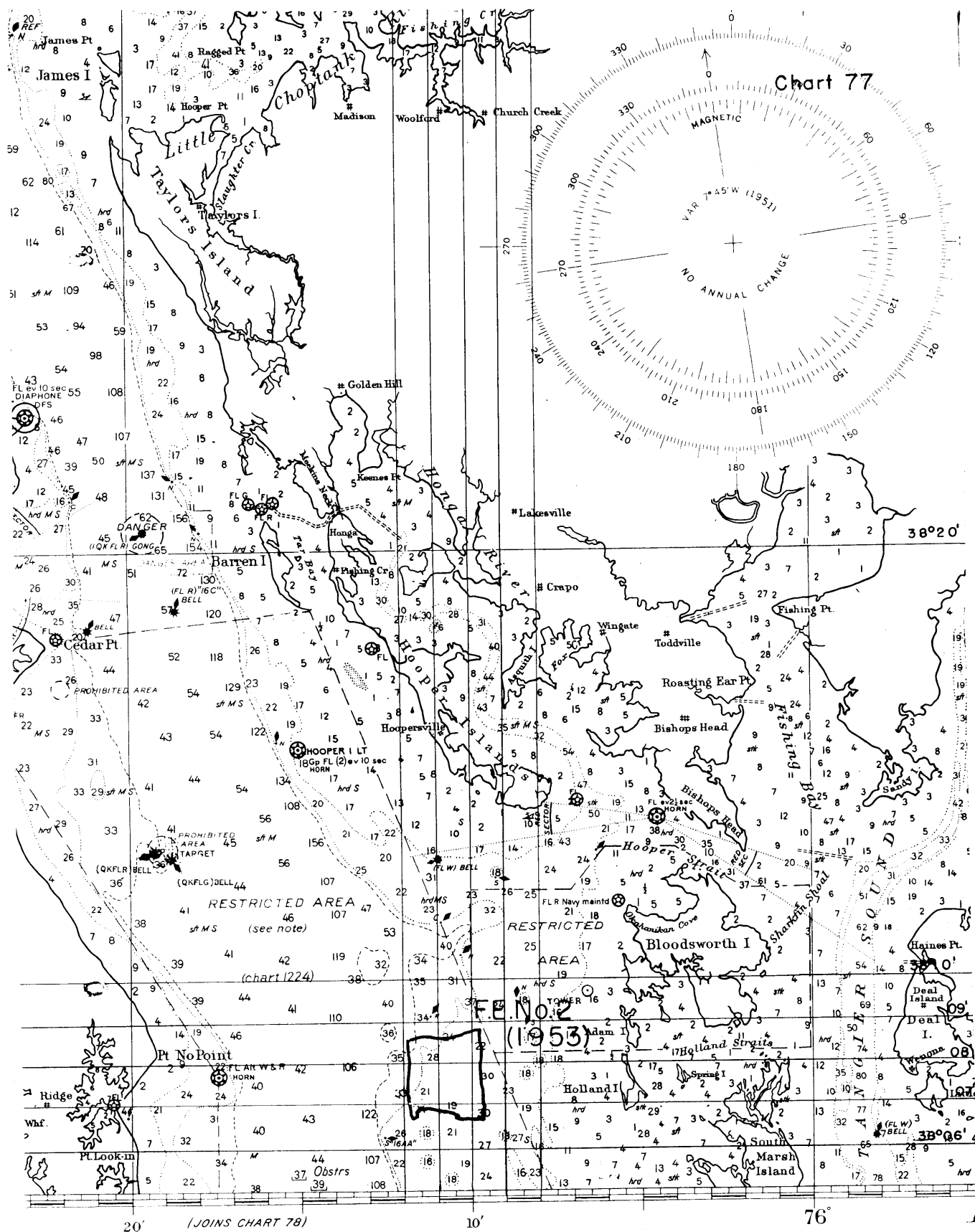
Scale - 1:30,000

Soundings are in feet at MLW and are true depths











# NAUTICAL CHARTS BRANCH

SURVEY NO.F.E.No.2(1953)

## Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.